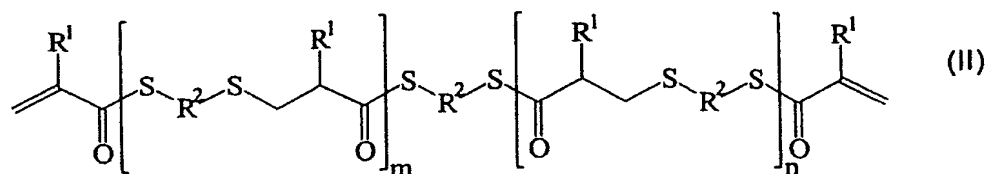


## Abstract

The present invention relates to mixtures for preparing transparent plastics, encompassing

- a) a prepolymer prepared from compounds of the formula (I) and (II)



where each  $\text{R}^1$ , independently of the others, is hydrogen or a methyl radical,  
each  $\text{R}^2$ , independently of the others, is a linear or branched, aliphatic or cycloaliphatic radical, or a substituted or unsubstituted aromatic or heteroaromatic radical, and each of  $m$  and  $n$ , independently of the other, is a whole number greater than or equal to 0, where  $m + n > 0$ , and from compounds of the formula (III), or from alkyl dithiols or from polythiols, preferably  $\text{HS-R}^3\text{-SH}$  (III)

where  $\text{R}^3$ , identical with or different from  $\text{R}^2$ , can be as defined for  $\text{R}^2$ , and

- b) at least one monomer (A) capable of free-radical polymerization and having at least 2 methacrylate groups, and
- c) aromatic vinyl compounds, such as styrene, and
- d) if appropriate, a monomer capable of free-radical

polymerization and having at least two terminal olefinic groups whose reactivity differs, and/or

- e) if appropriate, at least one monomer (B) from the group of the methacrylates, preferably 2-hydroxyethyl methacrylate.